## ENT COOPERATION TREA

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## **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

## From the INTERNATIONAL BUREAU

To:

**Assistant Commissioner for Patents** United States Patent and Trademark Office **Box PCT** 

Washington, D.C.20231 **ETATS-UNIS D'AMERIQUE** 

20 November 1998 (20.11.98)

Date of mailing (day/month/year) in its capacity as elected Office 07 August 2000 (07.08.00) International application No. Applicant's or agent's file reference PCT/US99/13049 3859-PA5PC International filing date (day/month/year) Priority date (day/month/year) 09 June 1999 (09.06.99)

**Applicant** 

BEECHAM, James, E.

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	07 June 2000 (07.06.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

S. Mafla

Facsimile No.: (41-22) 740.14.35 Telephone No.: (41-22) 338.83.38

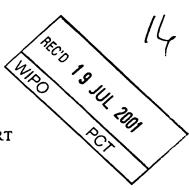
## 09/95/2409

## PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)



Applicant's or agent's file reference	<del></del>			
NONE	FOR FURTHER ACTION	CTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/n	vontb/year) Priority date (day/montb/year)		
PCT/US99/13049	09 JUNE 1999	20 NOVEMBER 1998		
International Patent Classification (IPC) or national classification and IPC IPC(7): G06K 9/00 and US Cl.: 382/116, 306; 707/9				
Applicant AUG 3 1 2001 BEECHAM, JAMES E. Technology Center 2100				
		99 Genter 2100		
Examining Authority and is	transmitted to the applicant	been prepared by this International Preliminary according to Article 36.		
2. This REPORT consists of a	total of sheets.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a to	tal of U sheets.			
3. This report contains indication	s relating to the following it	ems:		
I X Basis of the report				
II Priority				
III X Non-establishment of report with regard to novelty, inventive step or industrial applicability		velty, inventive step or industrial applicability		
IV X Lack of unity of i	invention			
V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents cited				
VII X Certain defects in the international application				
VIII Certain observations	s on the international application	on		
•				
Date of submission of the demand	Date	of completion of this report		
		•		
07 JUNE 2000		JUNE 2001		
Name and mailing address of the IPEA/U	JS Autho	reed officer,		
Commissioner of Patents and Tradems Box PCT	1 / V	Jene		
Washington, D.C. 20231	At	LEO H. BOUDREAU		
Facsimile No. (703) 305-3230	Telepi	hone No. (703) 305-3800		
Form PCT/IPEA/409 (cover sheet) (July	1008)-			

International application No.

PCT/US99/13049

L B	Basis (	of the report		
1. Wit	h rega	rd to the elements of the inter	national ambication #	
X		international application a		
	41.	description:	ongmany mou	
X	ŀ	es1-59		
		es NONE		
		· · <del></del>	, filed with the letter of	, filed with the demand
	r-0		, med with the letter of	
$\mathbf{x}$	the	claims:		
	pag	es <u>60-71</u>		, as originally filed
	page	es NONE	, as amended (together with any	statement) under Article 19
	page	sNONE	•	filed with the demand
	page	s <u>NONE</u>	, filed with the letter of	
<u></u>	tha	<b></b>		
X		drawings:		
		" <del></del>		, as originally filed
		NONE NONE		_ , filed with the demand
	Page	.3	, filed with the letter of	
$\mathbf{x}$	the s	equence listing part of the	description:	
لتنا	page			an aninimalla £1. d
				filed with the demand
	page	s NONE	, filed with the letter of	_ , med with the demand
	the la	unguage of a translation fu unguage of publication of unguage of the translation fun	thiess otherwise indicated under this item.  hed to this Authority in the following language  urnished for the purposes of international search (the international application (under Rule 48.3(b)).  hished for the purposes of international preliminary exa	under Rule 23.1(b)).
3. Wit	h rega	rd to any nucleotide and/o	r amino acid sequence disclosed in the international out on the basis of the sequence listing:	l application, the international
Ш	contained in the international application in printed form.			
	filed	together with the internati	onal application in computer readable form.	
	furnis	shed subsequently to this	Authority in written form.	
	furnis	shed subsequently to this	Authority in computer readable form.	
	The s intern	tatement that the subsequer ational application as filed	tly furnished written sequence listing does not go be has been furnished.	eyond the disclosure in the
	The st	atement that the information furnished.	recorded in computer readable form is identical to the	writen sequence listing has
4. X	The a	mendments have resulted	in the cancellation of:	
	X	the description, pages	NONE	
	X	the claims, Nos.	NONE	
	x	the drawings, sheets/fig		
5. 🔲	This r	<u> </u>	<del></del>	
لــا	bevo	od the disclosure as filed as	ome of) the amendments had not been made, since they ndicated in the Supplemental Box (Rule 70.2(c)).**	have been considered to go
and 7	cemen s repo 70.17)	t sheets which have been furn ort as "originally filed" and	shed to the receiving Office in response to an invitation u are not annexed to this report since they do not conto	un amendments (Rules 70.16
**Aπy	replac	ement sheet containing such	amendments must be referred to under item 1 and ar	nnexed to this report.

International application No. PCT/US99/13049

ш	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
1. T	1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been and will not be examined in respect of:				
	the entire international application.				
[2	claims Nos. <u>20-23</u>				
	because:				
	the said international application, or the said claim Nos. relate to the following subject matter which does not require international preliminary examination (specify).				
	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify).				
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.				
x	no international search report has been established for said claims Nos. 20-23.				
2. A r	2. A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:				
	the written form has not been furnished or does not comply with the standard.				
	the computer readable form has not been furnished or does not comply with the standard.				

International application No.
PCT/US99/13049

Г	<b>v.</b> 1	Lack of unity of invention	1
1	. In	response to the invitation to restrict or pay additional fees the applicant has:	1
ł		restricted the claims.	
		paid additional fees.	
ļ		paid additional fees under protest.	
	х	neither restricted nor paid additional fees.	
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule not to invite the applicant to restrict or pay additional fees.	68.1,
3.	This .	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is	
		complied with.	
		not complied with for the following reasons:	l
		;	
		,	
4.	Conse in esta	equently, the following parts of the international application were the subject of international preliminary examination	
		all parts.	
	$\mathbf{x}$	the parts relating to claims Nos. 1-19 and 24-34.	

International application No.

PCT/US99/13049

<b>V</b> .	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	statement			
	Novelty (N)	Claims	<del>2-4, 7-9, 12-19, 24-30, 32.</del>	YES
		Claims	1, 5-6, 10, 11, 31, 33, 34.	NO
	Inventive Step (IS)	Claims	15	YES
		Claims	1-14, 16-19, 24-34	NO
	To do a 11 de la company	<b>.</b>		
	Industrial Applicability (IA)	Claims	1-19, 24-34	YES
	,	Claims	NONE	NO

## 2. citations and explanations (Rule 70.7)

Claims 1, 5, 6, 10, 11, 31, 33 and 34 lack novelty under PCT Article 33(2) as being anticipated by Lang (US 5,191,611).

Regarding claims 1, 5, 6, 10, 31, 33 and 34, Lang teaches storing a document ("messages and other textural information..." at column 5, line 44) on a computer system (see figure 1) with an attached code ("identification code" at column 5, line 64; see "directly on the storage medium" at column 5, line 56; the code and document are attached to the storage medium, and thus attached to each other; if the storage medium, as the disclosed CD ROM, is transported, both the code and the document stay together), including biometric data ("biometric" at column 5, line 65, column 10, line 24 and column 15, line 26) of an authorized person, and authenticating the document and code by biometric comparison ("biometrics are used to identify the user" at column 15, line 26), thus confirming the authorized person and authorizing removal of the document ("allowed access" at column 7, line 13).

Regarding claim 11, the process is repeated for each individual requesting authority (see "nine authorized users" and "one or more users" at column 7, lines 10-20).

Claim 32 lacks an inventive step under PCT Article 33(3) as being obvious over Lang (US 5,191,611). Lang discloses a document authorization system for storing textural messages as applied to claim 31 above. While Lang does not specifically state that person can be (or is) the subject of the textural message, any types of "textural message" can be stored, including a personal letter regarding issues related to the authorized person, such as a letter of commendation. Lang does not limit the type and content of the stored data. It would have been obvious at the time the invention was made to one of ordinary skill in the art allow a person to store a personal letter, such as a letter of commendation, on the storage medium taught by Lange, thereby not limiting the system to specific types of information and content, thus making the system very flexible and user friendly.

(Continued on Supplemental Sheet.)

International application No.

## PCT/US99/13049 VII. Certain defects in the international application The following defects in the form or contents of the international application have been noted: Claim 1 is objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: line 8, the word "bar" should be "code", in the context of the claim.

International application No.

PCT/US99/13049

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

## V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):

Claims 2, 3, 7 and 8 lack an inventive step under PCT Article 33(3) as being obvious over Lang (US 5,191,611) in view of Bogosian, Jr. (US 5,513,272). Lang discloses a document authorization system where biometric data of an authorized person is stored with the document as described in the claim 1 and 6 rejections above. Lang does not disclose taking a digital photograph of the person and individual for biometric verification. Bogosian discloses a system in the same field of endeavor of personal verification, and same problem solving area of biometric verification, comprising storing a reference digital photograph of a fingerprint and comparing the print with an input digital photograph of the print (see figures 1 and 2). In addition, Bogosian stores a plurality of different types of digital photographs, corresponding to various biometric data, for subsequent verification (see figures 1 and 2). Bogosian states that the "cross-checking" ensure that the stored data has not been tampered with, and provides an improved, more secure method of verification over the storage of a single biometric feature (see column 1, lines 30-60). It would have been obvious at the time the invention was made to one of ordinary skill in the art to modify the Lang system to store the digital photographs taught by Bogosian, for subsequent verification through cross-checking to improve the verification accuracy, and thereby add an extra level of assurance that the stored biometrics have not been tampered with.

Claims 4 and 9 lack an inventive step under PCT Article 33(3) as being obvious over Lang (US 5,191,611) in view of Wang et al. (US 5,490,217). Lang discloses a document authorization system where biometric data of an authorized person is stored with the document as described in the claim 1 and 6 rejections above. Lang does not teach forming a two-dimensional bar code as the step of forming the personal identification code. Wang discloses a system in the same field of endeavor of personal verification, and same problem solving area of biometric verification (see column 3, lines 15-29), comprising forming a 2D barcode having the biometric code of a user, of a document, on the document (column 3, lines 6-28; see figure 5). By imprinting the code directly on the document, the code can be "used to retrieve [the] document from the system at a later time" and serves to detect whether the document has been "altered" as described at column 2, lines 40-50. It would have been obvious at the time the invention was made to one of ordinary skill in the art to imprint the biometric portion of the access code required by Lang, directly on the document in the form of a machine readable 2D barcode as taught by Wang, in order to simplify document retrieval using the code, and to alert the user as to whether the document had been altered as taught by Wang.

Claims 12-14, 16-19 and 24-30 lack an inventive step under PCT Article 33(3) as being obvious over Lang (US 5,191,611) in view of Wang et al. (US 5,490,217) and Bogosian, Jr. (US 5,513,272).

Lang discloses a document authorization system as applied to claim 1 (and other) above, the details of which will not be repeated here. Lang does not disclose the use of digital biometric photographs and barcodes as detailed in the rejection of claims 2 and 4 above. Bogosian teaches the use of digital biometric photographs as applied to claim 2 above, including the registration and verification process as depicted in figures 1 and 2. Wang teaches the application of a 2D barcode on a document for subsequent biometric identification. It would have been obvious at the time the invention was made to one of ordinary skill in the art to modify the Lang system to require the registration and verification of an person seeking to access the Lang document using digital biometric photographs of various biometric data, and it would have been obvious to store those photographs in the form of a machine readable bar code on the document itself as the biometric portion of the Lang identification code, for the reasons and motivation set forth in the claim 2 and 4 rejections above.

Claim 15 meets the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest dividing the digital photograph into first and second partial images.

	NEW	<b>CITATIONS</b>	
NONE			



## **PCT**

## WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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G06K 9/00

A1

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(30) Priority Data:

60/109,287

20 November 1998 (20.11.98) US

60/131,014 26 April 1999 (26.04.99)

US

(71)(72) Applicant and Inventor: BEECHAM, James, E. [US/US]; 8820 Cortile Drive, Las Vegas, NV 89134 (US).

(74) Agent: PARSONS, Robert, A.; Suite 260, 340 East Palm Lane, Phoenix, AZ 85004 (US).

(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

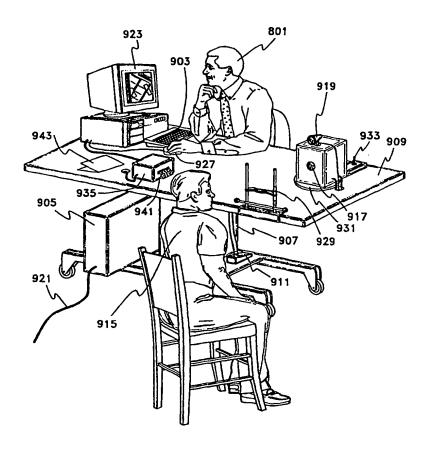
### **Published**

With international search report.

(54) Title: METHOD, SYSTEM AND APPARATUS FOR AUTHORIZATION AND VERIFICATION OF DOCUMENTS

## (57) Abstract

A method for the authorization of documents is disclosed which includes preparing a record for future reference by authorized personnel including providing a sensitive document (943), collecting biometric data (917) from an individual (915) requesting authority to become an authorized person to access the document (943), forming a bar code (941) including the biometric data from the individual, attaching the bar code to the document (943), and storing the document and attached bar code. Access to the document is authorized by collecting current biometric data from a person requesting access, comparing the current biometric data to the bar code attached to the document, and confirming that the person requesting access and the authorized individual are identical. Included is a method in which portions of a digital photograph are linked to different biometric data and stored data is compared to current data with the linked portions being joined to make a composite photograph.



## FOR THE PURPOSES OF INFORMATION ONLY

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## INTERNATIONAL SEARCH REPORT

International application No.
PCT/US99/13049

	SSIFICATION OF SUBJECT MATTER G06K 9/00			
US CL :	US CL :382/116, 306; 707/9			
	According to International Patent Classification (IPC) or to both national classification and IPC			
	DS SEARCHED  ocumentation searched (classification system followed	by classification symbols)		
	250/556, 557; 283/68, 69, 70, 77, 78, 81-114; 340/82		2. 306: 707/6, 9;	
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic d EAST, IE	ata base consulted during the international search (na EEE	me of data base and, where practicable.	search terms used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
X  Y	US 5,191,611 A (LANG) 02 March 19 line 67, col. 7, lines 14-17, col. 8, lines 15, lines 25, 27		1, 5, 6, 10, 11, 31-34	
	col. 15, lines 25-27.  2-4, 7-9, 12-14 16-19, 24-30			
Y	US 5,490,217 A (WANG et al) 06 February 1996, col. 2, lines 26- 67, col. 3, line 15-22, col. 4, lines 13-17, col. 5, lines 5-10 and 40- 55.			
Y	US 5,513,272 A (BOGOSIAN, Jr.) 30	April 1996, figure 1.	2, 3, 7, 8, 12-14, 16-19, 24-30	
Furth	er documents are listed in the continuation of Box C	See patent family annex.		
*A* do	Special categories of cited documents.  *T* later document published after the international filing date or prior date and not in conflict with the application but cited to understand to be of particular relevance.  *A* document defining the general state of the art which is not considered to be of particular relevance.		scation but cited to understand	
*E* earlier document published on or after the international filing date  *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of mother custom or other.		red to involve an inventive step		
*O* do	special reason (as specified)  document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art			
*P* document published prior to the international filing date but later than *&* document member of the same patent family the priority date claimed		family		
	actual completion of the international search	Date of mailing of the international sea	arch report	
Commissio Box PCT	mailing address of the ISA/US oner of Patents and Trademarks on, D.C. 20231	Authorized officer		
Washington, D.C. 20231		Telephone No. (703) 305-3800		



## INTERNATIONAL SEARCH REPORT

International application No. PCT/US99/13049

Box 1 Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)				
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows:				
Please See Extra Sheet.				
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.				
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
•				
4. X No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-19 and 24-34				
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.				



## INTERNATIONAL SEARCH REPORT



International application No. PCT/US99/13049

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claims 1-19 and 24-34, drawn to a method for authorizing access to documents.

Group II, claims 20-23, drawn to a method for verifying the operation of a biometric apparatus.

The inventions listed as Groups I and II do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I is drawn to a method for authorizing access to documents through biometric comparison of a person requesting access with coded biometric data stored on or with the document. Biometric comparison for granting access is well known in the art, so the special technical feature that makes over the prior art must lie in the manner in which the coded biometric data is stored on the document. Group II is drawn to a method for verifying the operation of a biometric apparatus by linking two pieces of input biometric data with two portions of a photograph respectively, wherein upon a successful comparison of the two separate pieces of biometric data, the two portions of the photograph are combined for visual verification. Group II has nothing to do with authorizing access to a document. These two groups do not relate to a single inventive concept, and do not share a single special technical feature that makes over the prior art.